


U.S. Department of Commerce, Patent and Trademark Office (PTO Form 1449 modified)				Pocket No. AMAT/4582/ISM/ COPPER/DV		Serial No. 09/853,962	
LISTS OF PATENTS AND PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)				Applicant Hey, et al.			
Examiner Unknown				Filing Date May 10, 2001		Group Unknown	



U.S. Patent Documents							
Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
2R	A1	6,258,220	07-10-2001	Dordi, et al.	204	198	04-08-1999
2R	A2	6,251,236	06-26-2001	Stevens	204	224 R	11-30-1998
2R	A3	5,885,469	03-23-1999	Kholodenko, et al.	216	11	11-05-1996
2R	A4	5,723,028	03-03-1998	Poris	204	231	10-19-1994
2R	A5	5,429,733	07-04-1995	Ishida	204	224 R	05-04-1993
2R	A6	5,256,274	10-26-1993	Poris	205	123	11-22-1991
2R	A7	5,039,381	08-13-1991	Mullarkey	204	47.5	05-25-1989
2R	A8	4,869,971	09-26-1989	Nee, et al.	428	635	01-23-1989
2R	A9	4,510,176	04-09-1985	Cuthbert, et al.	427	82	09-26-1983
2R	A10	4,496,436	01-29-1985	Inoue	204	23	12-27-1978
2R	A11	4,435,266	03-06-1984	Johnston	204	276	09-30-1982
2R	A12	4,396,467	08-02-1983	Anthony	204	15	07-21-1981
2R	A13	4,315,059	02-09-1982	Raistrick, et al.	429	112	07-18-1980
2R	A14	3,770,598	11-06-1973	Creutz	204	52 R	01-21-1972

Foreign Patent Documents								
Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
							YES	NO
2R	B1	WO 99/25905	05-27-1999	WIPO	C25D	5/02	X	
2R	B2	WO 97/12079	04-03-1997	WIPO	C25D	5/02	X	
2R	B3	JP04280993	10-06-1992	Japan English Abstract	C25D	5/18	X	

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Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.
2R	C1	Holm, Ragnar, "Electric Contacts Theory and Application," Springer-Verlag New York, Inc., New York, New York, 1967, Pages 1-11, 26-31, 40-51, 164-175, and 366-375.
2R	C2	Pitney, K.E., NEY Contact Manual, "Electrical Contacts for Low Energy Uses," The J. M. Ney Co., Bloomfield, Connecticut, 1973, Pages 1-13, 88-91, and 148-165.
Examiner		Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

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LISTS OF PATENTS AND PUBLICATIONS CITED BY APPLICANT

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Examiner Unknown	Applicant Hey, et al.	Filing Date May 10, 2001	Group Unknown
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U.S. Patent Documents

Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
<i>VM</i>	A15	09/245,780		Dordi, et al.			02-05-1999
<i>VM</i>	A16	09/614,407		Zheng, et al.			07-12-2000
<i>VM</i>	A17	09/569,833		Gandikota, et al.			05-11-2000
	A18						
	A19						
	A20						
	A21						
	A22						
	A23						
	A24						

Foreign Patent Documents

Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
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<i>VM</i>	B4	JP58182823	10-25-1983	Japan English Abstract	H01L	21/288	X	
<i>VM</i>	B5	JP63118093	05-23-1988	Japan English Abstract	C25D	5/18	X	
	B6							
	B7							
	B8							

OTHER ART

Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.
<i>VM</i>	C3	Singer, Peter, "Wafer Processing," Semiconductor International, June 1998, Page 70.
<i>VM</i>	C4 ^v	Singer, Peter, "Tantalum, Copper and Damascene: The Future of Interconnects," Semiconductor International, June 1998, Pages 90-91, 94-96, and 98.
	C5	
	C6	
Examiner <i>VM</i>	Date Considered <i>9/25/03</i>	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicant Hey, et al.	Confirmation No.: 6593
(Use several sheets if necessary)		Filing Date May 10, 2001	Group 1762
Examiner Unknown			

U.S. Patent Documents

*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
<i>me</i>	A1	6,551,488	04/22/03	Hey, et al.	205	157	09/08/00
	A2	6,551,484	04/22/03	Hey, et al.	205	96	01/18/01
	A3	6,350,366	02/26/02	Landau, et al.	205	182	01/18/00
	A4	6,344,419	02/05/02	Forster, et al.	438	758	12/03/99
	A5	6,267,853	07/31/01	Dordi, et al.	204	232	07/09/99
	A6	6,261,733	07/17/01	Coppens, et al.	430	230	05/03/00
	A7	6,258,220	07/10/01	Dordi, et al.	204	198	04/08/99
	A8	6,254,760	07/03/01	Shen, et al.	205	335	03/05/99
	A9	6,174,425	01/16/01	Simpson, et al.	205	96	05/14/97
	A10	6,113,771	09/05/00	Landau, et al.	205	123	07/13/98
	A11	6,093,291	07/25/00	Izumi, et al.	204	224R	7/31/98
	A12	6,071,388	06/06/00	Uzoh	204	297 R	05/29/98
<i>me</i>	A13	6,024,856	02/15/00	Haydu, et al.	205	84	10/10/97

Foreign Patent Documents

*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
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<i>me</i>	B1	99/54527	10/28/99	WO	C25D	17/00	<input type="checkbox"/>	<input type="checkbox"/>
	B2	99/47731	09/23/99	WO	C25D	3/58	<input type="checkbox"/>	<input type="checkbox"/>
<i>me</i>	B3	99/26275	05/27/99	WO	H01L		<input type="checkbox"/>	<input type="checkbox"/>

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*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.
<i>me</i>	C1	Dordi, et al. "Flow Diffuser to be Used in Electro-Chemical Plating System," filed 12/05/00; USSN 09/731,326
<i>me</i>	C2	Hey, et al. "Deposition Uniformity Control for Electroplating Apparatus, and Associated Method," filed 10/12/00; USSN 09/687,053

Examiner *me me*Date Considered *9/25/03*

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U.S. Patent Documents

*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
<i>NR</i>	A1	5,838,121	11/17/98	Fairbairn, et al.	318	45	11/18/96
	A2	5,730,890	03/24/98	Bickford, et al.	216	87	09/12/96
	A3	5,705,223	01/06/98	Bunkofske	427	240	12/05/95
	A4	5,651,865	07/29/97	Sellers	204	192.13	06/17/94
	A5	5,625,170	04/29/97	Poris	177	50	01/18/94
	A6	5,608,943	03/11/97	Konishi, et al.	15	302	08/22/94
	A7	5,528,118	06/18/96	Lee	318	568.17	04/01/94
	A8	5,516,412	05/14/96	Andricacos, et al.	204	224R	05/16/95
	A9	5,454,930	10/03/95	Miura, et al.	205	159	07/28/94
	A10	5,447,615	09/05/95	Ishida	204	224R	06/22/94
	A11	5,415,890	05/16/95	Kloiber, et al.	427	242	01/03/94
	A12	5,377,708	01/03/95	Bergman, et al.	134	105	04/26/93
<i>NR</i>	A13	5,368,711	11/29/94	Poris	204	193	04/29/93

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*Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
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<i>NR</i>	B1	99/25905	05/27/99	WO	C25D	5/02	<input type="checkbox"/>	<input type="checkbox"/>
	B2	99/25904	05/27/99	WO	C25D	5/02	<input type="checkbox"/>	<input type="checkbox"/>
<i>NR</i>	B3	99/25903	05/27/99	WO	C25D	5/00	<input type="checkbox"/>	<input type="checkbox"/>

OTHER ART

*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.
<i>NR</i>	C1	Olgado, "Linear Motion Apparatus and Associated Method," filed 10/16/00; USSN 09/684,500
	C2	Dordi, et al. "Method and Associated Apparatus for Tilting a Substrate Upon Entry for Metal Deposition," filed 10/03/00; USSN 09/678,947
<i>NR</i>	C3	Olgado, et al. "Stable Cell Platform," filed 09/29/00; USSN 09/676,362

Examiner *NR* *NR*Date Considered *9/25/03*

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U.S. Patent Documents

*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date if Appropriate
700	A1	5,349,978	09/27/94	Sago, et al.	134	153	06/04/93
	A2	5,328,589	07/12/94	Martin	205	296	12/23/92
	A3	5,316,974	05/31/94	Crank	437	190	04/30/90
	A4	5,290,361	03/01/94	Hayashida, et al.	134	2	01/23/92
	A5	5,259,407	11/09/93	Tuchida, et al.	134	151	06/14/91
	A6	5,252,807	10/12/93	Chizinsky	219	390	10/23/91
	A7	5,230,743	07/27/93	Thompson, et al.	134	32	07/30/92
	A8	5,224,504	07/06/93	Thompson, et al.	134	155	07/30/92
	A9	5,222,310	06/29/93	Thompson, et al.	34	202	01/11/91
	A10	5,178,813	01/12/93	Akatsu, et al.	264	210.7	03/19/91
	A11	5,162,260	11/10/92	Leibovitz, et al.	437	195	01/07/1
	A12	5,155,336	10/13/92	Gronet, et al.	219	411	10/24/91
mk	A13	5,092,975	03/03/92	Yamamura, et al.	204	198	06/15/89

Foreign Patent Documents

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	B2	443 108	11/22/68	SU	C23	5/20	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B3	6-17291	01/25/94	JP	H01L	21/288	<input type="checkbox"/>	<input type="checkbox"/>

OTHER ART

*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.
700	C1	Olgado, et al. "Multiple Blade Robot Adjustment Apparatus and Associated Method," filed 09/18/00; USSN 09/664,607
700	C2	Olgado, "Removable Modular Cell for Electro-Chemical Plating," filed 09/15/00; USSN 09/663,814
	C3	

Examiner Vicki Hopper Date Considered 9/25/03

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U.S. Patent Documents

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2/1	A1	5,055,425	10/08/91	Leibovitz, et al.	437	195	06/01/89
	A2	4,789,445	12/06/88	Goffman, et al.	204	114	11/19/86
	A3	4,732,785	03/22/88	Breser	427	240	09/26/86
	A4	4,693,805	09/15/97	Quazi	204	192.22	02/14/86
	A5	4,519,846	05/28/85	Aigo	134	15	03/08/84
	A6	4,518,678	05/21/85	Allen	430	311	12/16/83
	A7	4,489,740	12/25/84	Rattan, et al.	134	140	12/27/82
	A8	4,428,815	01/31/84	Powell, et al.	204	297 W	04/28/83
	A9	4,405,416	09/20/83	Raistrick, et al.	204	68	09/15/81
	A10	4,376,685	03/15/83	Watson	204	52 R	06/24/81
	A11	4,336,114	06/22/82	Mayer, et al.	204	52R	03/26/81
	A12	4,326,940	04/27/82	Eckles, et al.	204	232	05/21/79
MP	A13	4,113,492	09/12/78	Sato, et al.	96	67	04/08/77

Foreign Patent Documents

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OTHER ART

*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.
2/1	C1	Zheng, et al. "Method of Application of Electrical-biasing to Enhance Metal Deposition," filed 07/12/00; USSN 09/614,407
2/1	C2	Gandikota, et al. "Electrochemical Deposition for High Aspect Ratio Structures Using Electrical Pulse Modulation," filed 05/11/00; USSN 09/569,833
	C3	

Examiner *2/1* *2/1* Date Considered *9/25/03*

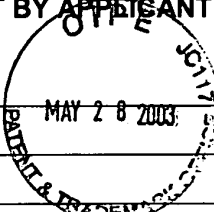
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2A	A1	4,110,176	08/29/78	Creutz, et al.	204	52 R	05/04/77
	A2	4,092,176	05/30/78	Kozai, et al.	134	186	12/07/76
	A3	4,027,686	06/07/77	Shortes, et al.	134	33	01/02/73
	A4	3,727,620	04/17/73	Orr	134	95	03/18/70
	A5	3,649,509	03/14/72	Morawetz, et al.	204	238	07/08/69
	A6	2,882,209	04/14/59	Brown	204	52	05/20/57
	A7	2,742,413	04/17/56	Cransberg, et al.	204	52	04/13/53
Foreign Patent Documents							
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	B3						<input type="checkbox"/> <input type="checkbox"/>
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*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.					
2A	C1 ✓	Dordi, et al. "Electrodeposition Chemistry for Improved Filling of Apertures," filed 02/05/99; USSN 09/245,780					
	C2	Colombo, "Wafer Back Surface Film Removal," Central R&D, SGS-THOMSON Microelectronics, Agate Italy					
	C3	Semitool Product Catalog (on-line) October 27, 1998					
	C4	Singer, "Copper Has Enormous Benefits When Compared to Aluminum, but its Implementation Requires Some Fundamental Changes in Process Technologies," Semiconductor International June 1998					
	C5	Singer, "Wafer Processing," Semiconductor International June 1998					
	C6	Pitney, "Ney Contact Manual" October 1974					
	C7	Holm, "Electric Contacts: Theory and Application" August 21, 1967					
Examiner <i>mio</i> <i>Rgon</i>					Date Considered <i>9/25/03</i>		
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U.S. Patent Documents							
*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date if Appropriate
21K	A1	5,384,640	01/24/95	Wong	356	437	01/19/83
	A2	6,197,181	03/06/01	Chen	205	123	03/20/98
	A3	6,203,684	03/20/01	Taylor, et al.	205	103	10/14/98
	A4	6,210,555	04/03/01	Taylor, et al.	205	103	01/29/99
	A5	6,224,737	05/01/01	Tsai, et al.	205	123	08/19/99
	A6	6,227,263	05/08/01	Kust, et al.	141	86	02/04/00
	A7	6,261,433	07/17/01	Landau	205	96	04/21/99
	A8	6,290,833	09/18/01	Chen	205	182	08/31/99
	A9	6,303,014	10/16/01	Taylor, et al.	205	103	04/20/00
	A10	6,319,384	11/20/01	Taylor, et al.	205	103	04/20/00
21K	A11	6,432,821	08/13/02	Dubin, et al.	438	678	12/18/00
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	A13						
	A14						

Foreign Patent Documents								
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	B3						<input type="checkbox"/>	<input type="checkbox"/>

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	C1	
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Examiner <i>W. H. H.</i>	Date Considered 9/25/03
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